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## APPENDIX D

### IDM VERIFICATION SURVEY RESULTS

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Appendix D contains the results of the verification surveys performed in Building 14 by IDM. The survey data recorded on the field-generated verification surveys included in Appendix C were entered into template EXCEL files to calculate the net surface activity in units of dpm/100 cm<sup>2</sup> for each measurement and the associated error and MDA. These files were then converted to a standard format, and additional information pertaining to the surveys and sample locations was added. The data were then converted to a database format for use with the graphics software programs. This appendix reports all measurements made, including 5-point measurements within each grid cell for direct alpha and beta/gamma measurements. Survey numbers were not available for all of the surveys when the electronic data were submitted, so in some cases, a text description copied from the header of the survey or the survey file name is placed in this field. During the course of creating the database and resulting data figures, a number of errors were identified and corrected. These errors were primarily incorrect grid locations on the original forms. Since the survey forms in Appendix C were not available at that time, they were placed into this report uncorrected. The database reported in this appendix reflects the corrections made and where the two sources conflict, this database supersedes the survey form. The following fields are listed for each measurement.

1. Measurement type (DP-a, DP-b/g, R-a, R-b/g). Refers to direct point or removable measurements and alpha or beta/gamma activity.
2. X, Y, and Z coordinates of the sample. The X coordinate is from the east-west axis of the grid, the Y coordinate is from the north-south axis of the grid, and the Z coordinate is from the vertical axis on the wall grids.
3. The sample number is that assigned on the survey form.
4. The sample types are REG for regular measurements, DUP for duplicate measurements, and RE for post-IVC measurements.
5. The location description is that provided on the verification survey form.
6. The sub-area is the section or room within the main area. Some areas had individual offices or rooms which were also identified on site drawings as areas. These designations were retained to aid in locating measurements.
7. The background count is in counts per minute and is the background counted onsite and used to calculate the measurement activity.
8. The gross count is the measurement as recorded in the field in counts per minute.
9. The result is the net surface activity for that measurement in dpm/100 cm<sup>2</sup> after deducting background.
10. The error is the calculated 95 percent error in dpm/100 cm<sup>2</sup>.
11. The MDA is the minimum detectable activity in dpm/100 cm<sup>2</sup>.
12. The date is the measurement or sample date for direct measurements and the analysis date for removable measurements.
13. The survey number is either the numerical survey number (e.g., 1423) or, in the absence of an assigned number, a text string that may be the name of the EXCEL file in which the data were provided or a textual description provided somewhere in the survey.

These data are organized in the following sequence:

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1. By area (same sequence as in Appendix C)
2. By sub-area
3. By surface type (listed alphabetically, ceiling, floor, wall-east, wall-north, etc.)
4. By measurement type (DP-a, DP-b/g, R-a, R-b/g)
5. By X-coordinate in ascending order (wall data sort sequence differs)
6. By Y-coordinate in ascending order (wall data sort sequence differs)

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IDM Verification Survey Results

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